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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/502,436	07/23/2004	Klaus Dunemann	449122075500	3748
25227 75	590 01/24/2006		EXAMINER	
MORRISON & FOERSTER LLP			KAPLAN, HAL IRA	
1650 TYSONS SUITE 300	BOULEVARD		ART UNIT	PAPER NUMBER
MCLEAN, VA	22102		2836	
			DATE MAILED: 01/24/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

			<u> </u>
	Application No.	Applicant(s)	:
	10/502,436	DUNEMANN, KLAUS	:
Office Action Summary	Examiner	Art Unit	:
	Hal I. Kaplan	2836	:
- The MAILING DATE of this communication ap	opears on the cover sheet wi	th the correspondence address	:
Period for Reply			: -:
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION (136(a). In no event, however, may a red will apply and will expire SIX (6) MON the, cause the application to become AB	CATION. eply be timely filed ITHS from the mailing date of this communication ANDONED (35 U.S.C. § 133).	:
Status			:
1)⊠ Responsive to communication(s) filed on 23.	July 2004		:
	is action is non-final.		:
3) Since this application is in condition for allows		ers, prosecution as to the merits	: is
closed in accordance with the practice under	•	• •	
Disposition of Claims			
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.			:
4a) Of the above claim(s) is/are withdra			
5) Claim(s) is/are allowed.			:
6)⊠ Claim(s) <u>1 and 8</u> is/are rejected.			•
7)⊠ Claim(s) <u>2-7 and 9</u> is/are objected to.			:
8) Claim(s) are subject to restriction and/	or election requirement.		:
Application Papers			
9)⊠ The specification is objected to by the Examin	ner.		
10)⊠ The drawing(s) filed on 23 July 2004 is/are: a		ted to by the Examiner.	:
Applicant may not request that any objection to the			į
Replacement drawing sheet(s) including the corre	ction is required if the drawing	(s) is objected to. See 37 CFR 1.121	(d).
11) The oath or declaration is objected to by the E	Examiner. Note the attached	d Office Action or form PTO-152.	; ;
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreig a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
1.⊠ Certified copies of the priority documer	nts have been received.		<i>:</i> :
2. Certified copies of the priority documer		pplication No	:
3. Copies of the certified copies of the pri			:
application from the International Burea	au (PCT Rule 17.2(a)).	_	:
* See the attached detailed Office action for a lis	st of the certified copies not	received.	:
Attachment(s)			· · ·
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	:
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 		s)/Mail Date nformal Patent Application (PTO-152)	:
Paper No(s)/Mail Date <u>10/12/04</u> .	6) Other:		:

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file. A translation into the English language of the international application, as required by 35 U.S.C. 371(c)(2), was not received.

Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

3. The disclosure is objected to because of the following informalities:

Page 5, line 18 contains the phrase "arrangement 1 has". It appears this should read "arrangement 1 which has". Page 6, line 35 contains the phrase "when the magnetic field". It appears this should read "only when the magnetic field". Page 7, line 25 contains the phrase "a negative voltage takes effect". It appears this should read "a negative voltage is present".

Page 3, lines 11-13 and page 7, lines 18-20 contain the phrase "both in the event

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of a switch-on command and ... an induced voltage being present". It is not clear whether these conditions need to be met simultaneously, or whether they are alternatives and only one needs to be met.

Appropriate correction is required.

Drawings

4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the electrical switching arrangement wherein the signal conversion elements are voltage transformers must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

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the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by the US patent of Billings (4,704,652).

As to claim 1, Billings, drawn to a hybrid electrical power controller, teaches, in Figures 2 and 3, an electrical switching arrangement, comprising: an electromagnetic relay (36,K); a switching device (10), having outputs arranged parallel to one contact of the electromagnetic relay (see column 3, lines 23-27); a control arrangement (CR3,C1,R4,R5,R6,Q4) which is connected to the coil (K) of the electromagnetic relay (36,K) and the switching device (10) (see column 3, line 25, and Figures 2 and 3); and a voltage detection device (24') arranged between the control arrangement and the coil (K) of the electromagnetic relay (see column 4, lines 26-29 and 54-62), the voltage detection device instructing, when a switch-on command is emitted by the control arrangement, a downstream drive unit (34) to emit a switching signal which short-circuits the switching device (10) on the output side (see column 3, lines 8-14), maintaining, when the switch-on command is ended, the switching signal until a contact (36) of the electromagnetic relay (36,K) is opened, and instructing, when there is no

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switch-on command, the drive unit (34) to emit a second switching signal which opens the switching device (10) on the output side (see column 1, line 64 through column 2, line 4).

The limitations "instructing ... on the output side, maintaining ... is opened, and instructing ... on the output side" are functional limitations which have no bearing on patentability. While features of an apparatus may be recited either structurally or functionally, claims< directed to >an< apparatus must be distinguished from the prior art in terms of structure rather than function. >In re Schreiber, 128 F.3d 1473, 1477-78, 44 USPQ2d 1429, 1431-32 (Fed. Cir. 1997) (The absence of a disclosure in a prior art reference relating to function did not defeat the Board's finding of anticipation of claimed apparatus because the limitations at issue were found to be inherent in the prior art reference); see also In re Swinehart, 439 F.2d 210, 212-13, 169 USPQ 226, 228-29 (CCPA 1971);< In re Danly, 263 F.2d 844, 847, 120 USPQ 528, 531 (CCPA 1959).

"[A]pparatus claims cover what a device is, not what a device does." Hewlett-Packard Co. v. Bausch & Lomb Inc., 909 F.2d 1464, 1469, 15 USPQ2d 1525, 1528 (Fed. Cir. 1990) (emphasis in original).

A claim containing a "recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus" if the prior art apparatus teaches all the <u>structural</u> limitations of the claim. *Ex parte Masham*, 2 USPQ2d 1647 (Bd. Pat. App. & Inter. 1987) (The preamble of claim 1 recited that the apparatus was "for mixing flowing developer material" and the body of the claim recited "means for mixing ..., said mixing means being stationary and

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completely submerged in the developer material". The claim was rejected over a reference which taught all the structural limitations of the claim for the intended use of mixing flowing developer. However, the mixer was only partially submerged in the developer material. The Board held that the amount of submersion is immaterial to the structure of the mixer and thus the claim was properly rejected. See MPEP §2114.

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As to claim 8, the switching device of Billings has at least one MOS transistor (Q3,Q4).

Allowable Subject Matter

- 7. Claims 2-7 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter:

Claims 2 and 3 contain allowable subject matter because none of the prior art of record teaches or discloses the voltage detection device having a rectifier circuit which is connected on the input side to the control arrangement and the coil of the electromagnetic relay and is connected on the output side to the drive unit via a comparator, in combination with the remaining claimed features.

Claims 4-7 contain allowable subject matter because none of the prior art of record teaches or discloses the drive unit having two signal conversion elements driven in phase opposition, in combination with the remaining claimed features.

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Claim 9 contains allowable subject matter because none of the prior art of record teaches or discloses the switching device operating bi-directionally, in combination with the remaining claimed features.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The US patent to Carton et al. (6,643,112) teaches a similar device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hal I. Kaplan whose telephone number is 571-272-8587. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on 571-272-2800 x36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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ROBERT L. DEBERADINIS
PRIMARY EXAMINER